

What is claimed is:

1. A probe pin cleaning device comprising:
a fixing member for fixing uprightly a probe pin;
5 a supporting member for supporting the fixing member;
a cleaning container for containing a cleaning solution;
and
an ultrasonic vibration generating means for generating
ultrasonic vibrations directed to the cleaning solution in which
10 the stylus portion of the probe pin facing downward is immersed.
2. The probe pin cleaning device according to Claim 1,
wherein the cleaning solution includes ethyl alcohol.
3. The probe pin cleaning device according to Claim 2,
comprising an ultraviolet irradiating means for irradiating the
15 stylus portion of the probe pin with ultraviolet rays for detecting
the presence or absence of a foreign particle on the portion.
4. The probe pin cleaning device according to Claim 3,
comprising a reflective mirror that is provided on the bottom
of the cleaning container containing the cleaning solution,
20 reflects the ultraviolet rays from the ultraviolet irradiating
means, and applies the rays to the stylus portion of the probe
pin.
5. The probe pin cleaning device according to Claim 3,
comprising an image recognizing means for recognizing the image
25 of the stylus portion of the probe pin which is irradiated with
the ultraviolet rays, and thereby detects the presence or absence
of a foreign particle on the probe pin.
6. The probe pin cleaning device according to Claim 5,
comprising:
30 a checking means for checking whether or not the stylus

portion of the probe pin fixed on the fixing member is immersed in the cleaning solution; and

an elevating means for changing the position of the stylus portion of the probe pin with respect to the level of the cleaning solution depending on the checking information given by the checking means.